The Da-Lite Difference.

Instruction Book for
TENSIONED ADVANTAGE® ELECTROL®

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IMPORTANT SAFETY INSTRUCTIONS

When using your video equipment, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Position the cord so that it will not be tripped over, pulled, or contact hot surfaces.
3. If an extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used. Cords rated for less amperage than the appliance may overheat.
4. To reduce the risk of electric shock, do not disassemble this appliance. Contact an authorized service dealer when repair work is required. Incorrect reassembly can cause electric shock when the appliance is used subsequently.
5. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.

SAVE THESE INSTRUCTIONS

PRE-INSTALLATION

1. Carefully unpack case from shipping carton. DO NOT unpack fabric and roller assembly yet.
2. Make sure to recheck measurement of case for proper installation clearance.
3. Remove any protective foam or tape from case.

CASE INSTALLATION

1. Remove 2 screws to open junction box.
2. Hang case and attach to support structure with threaded rod. See suggested methods of installation on page 5.
3. Tighten bolts until trim flange is flush with ceiling.

   NOTE: For proper operation, screen assembly must be level after installation.
4. Install electrical connections that applies to your unit. Make sure to review the wiring diagram for proper hook up.

   NOTE: Must be installed in accordance with the requirements of the Local Building Codes, the Canadian Electrical Code (CEC), CAN/CSA C22.1 and the National Electric Code (NEC), NFPA 70.
5. Replace junction box cover and secure with 2 screws.
6. If screen and case are purchased together, remove slat retainer brackets from the screen case and back of slat.

SCREEN AND ROLLER ASSEMBLY INSTALLATION

If your screen was shipped with the motor and roller already installed, proceed to step 6.

1. Remove access door. First, remove the 2 screws from the ends. Be sure to support the door during this step to avoid injury. Then lift the door slightly and pull away from the edge of the case.
2. Carefully unpack screen and roller assembly. Leave packing paper on roller.
3. To install screen and roller assembly, insert the motor end into the motor mount bracket as shown in Fig. 1.
4. Loosen (but do not remove) two 1/4-20 nuts securing pin end bracket (stage left) to the case housing. Slide the bracket towards the end of the case. Insert the motor end square shaft into the motor end bracket and secure with the clip.Insert the tip of the roller pin end into the bracket and position. Tighten the 1/4-20 nuts securely.
5. Complete electrical hook-up by snapping motor wire connector into case connector.
6. Carefully remove paper and tape from roller assembly. **DO NOT** use a knife or sharp object to cut tape; you will damage the screen.
7. Test installation by running screen up and down a few times. Be prepared to stop screen. Standard Duty Cycle: 1 MIN. ON / 3 MIN. OFF.
8. Re-install access door. Procedure is reverse of removal (step 1).

ADVANTAGE® ELECTROL® INSTALLATION

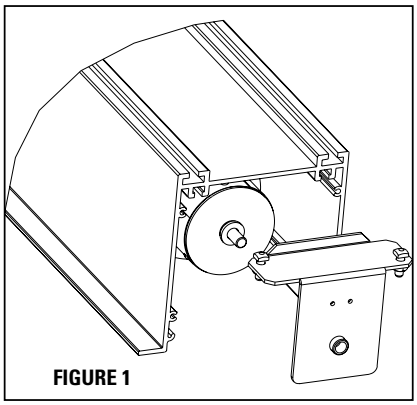
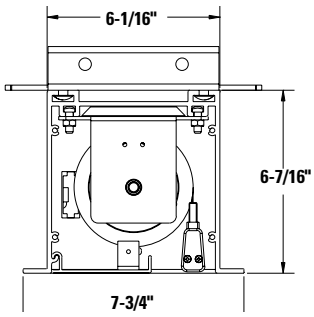
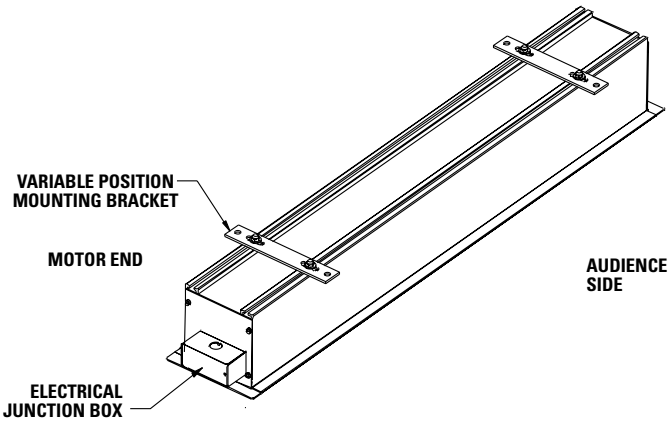
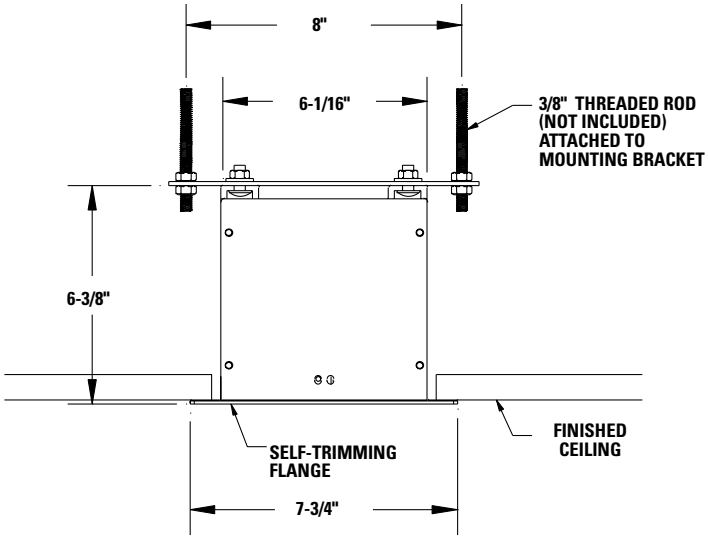
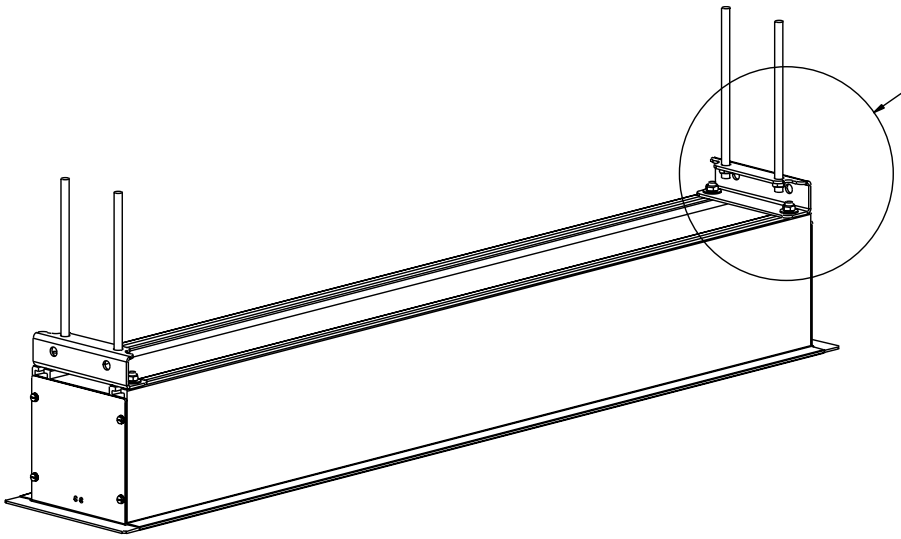


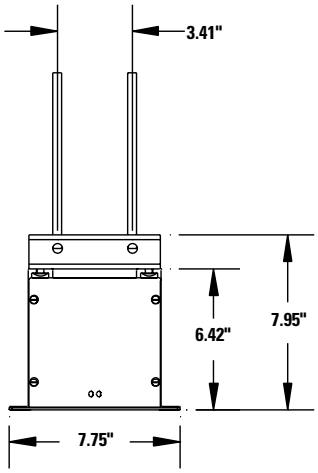
FIGURE 1

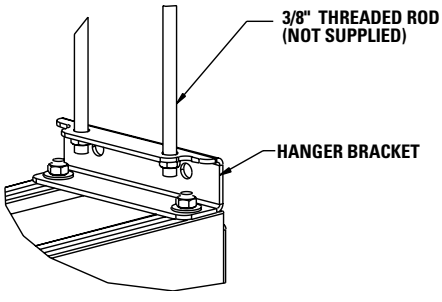












DETAIL A

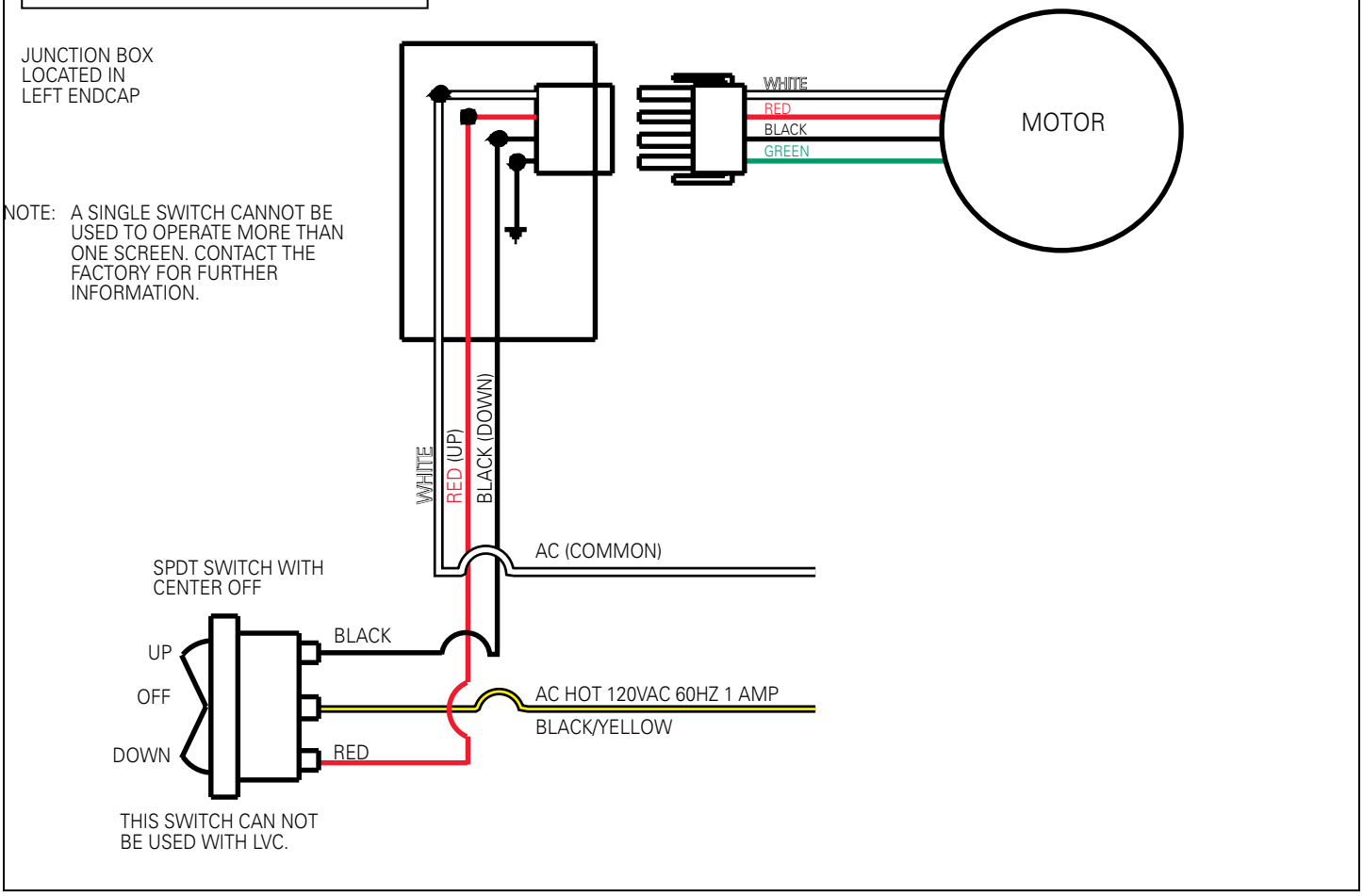
SCREEN ADJUSTMENT

Surface travel is stopped automatically in the fully opened and closed positions by limit switches that are properly adjusted at Da-Lite.

CONTACT DA-LITE AT 800-622-3737 OR 574-267-8101 IF SCREEN MOTOR NEEDS ADJUSTMENT.

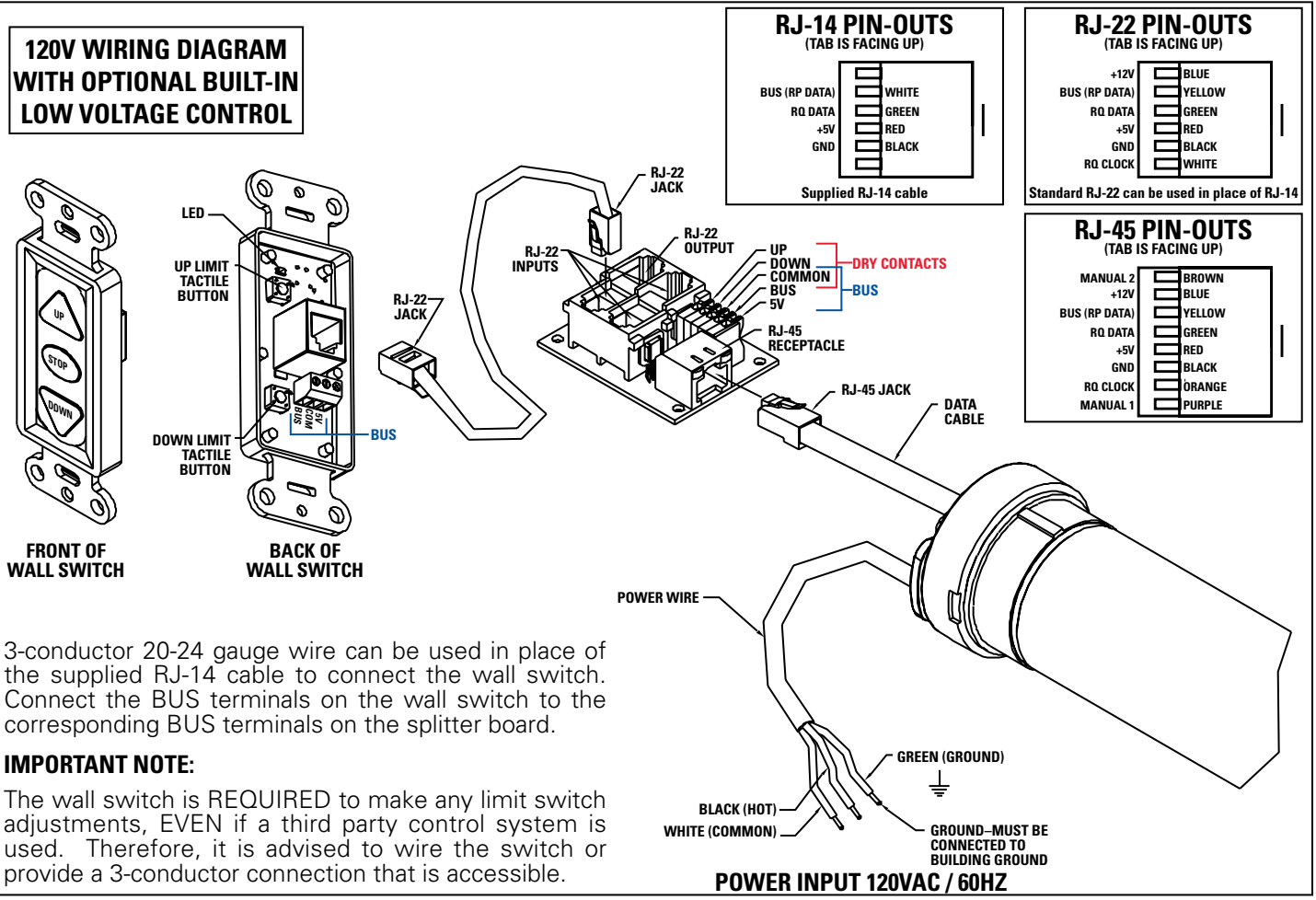
TENSIONED ADVANTAGE® ELECTROL® INSTALLATION FOR 120V SCREENS

120V WIRING DIAGRAM FOR STANDARD WALL SWITCH



TENSIONED ADVANTAGE® ELECTROL® INSTALLATION FOR 120V SCREENS

120V WIRING DIAGRAM WITH OPTIONAL BUILT-IN LOW VOLTAGE CONTROL



3-conductor 20-24 gauge wire can be used in place of the supplied RJ-14 cable to connect the wall switch. Connect the BUS terminals on the wall switch to the corresponding BUS terminals on the splitter board.

IMPORTANT NOTE:

The wall switch is REQUIRED to make any limit switch adjustments, EVEN if a third party control system is used. Therefore, it is advised to wire the switch or provide a 3-conductor connection that is accessible.

120V WIRING DIAGRAM WITH OPTIONAL BUILT-IN VIDEO PROJECTOR INTERFACE

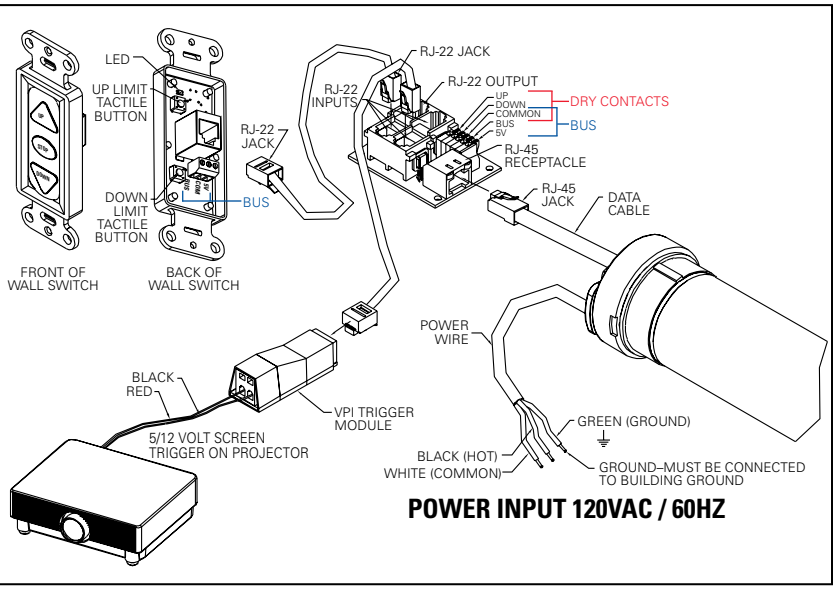
CAUTION: THE PROJECTOR MUST BE TURNED OFF BEFORE CONNECTING THE TRIGGER WIRES TO THE PROJECTOR. FAILURE TO DO SO MAY DAMAGE THE CONTROLLER.

Use 2-conductor 20-24 gauge wire to extend the low voltage connection from the projector's 5 or 12-volt screen trigger output to the length required to reach the VPI. When extending the low voltage connection from the projector's screen trigger output polarity does not matter. The red and black wires from the VPI are interchangeable.

IMPORTANT NOTE:

The wall switch is REQUIRED to make any limit switch adjustments, EVEN if a third party control system is used. Therefore, it is advised to wire the switch or provide a 3-conductor connection that is accessible.

3-conductor 20-24 gauge wire can be used in place of the supplied RJ-14 cable to connect the wall switch. Connect the BUS terminals on the wall switch to the corresponding BUS terminals on the splitter board.

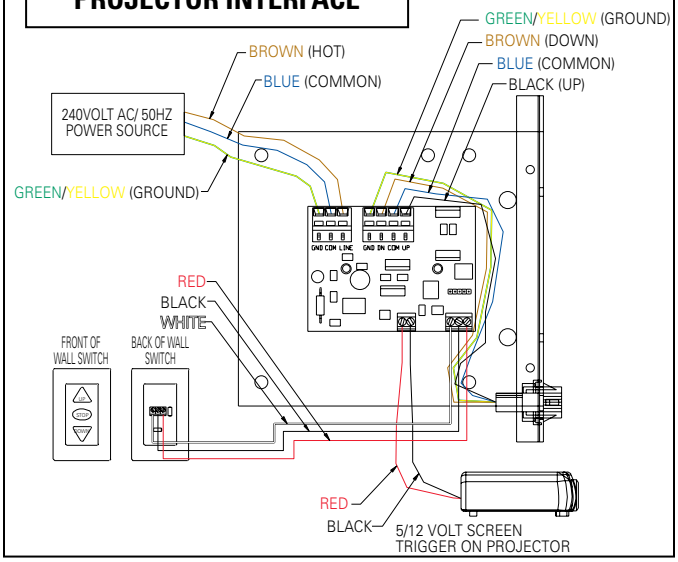


TENSIONED ADVANTAGE® ELECTROL® INSTALLATION FOR 220/240V SCREENS

240 VOLT WIRING DIAGRAM FOR STANDARD WALL SWITCH:

Da-Lite offers two styles of 240 volt wall switches for standard operation. Please see wiring diagram included in wall switch box included with screen.

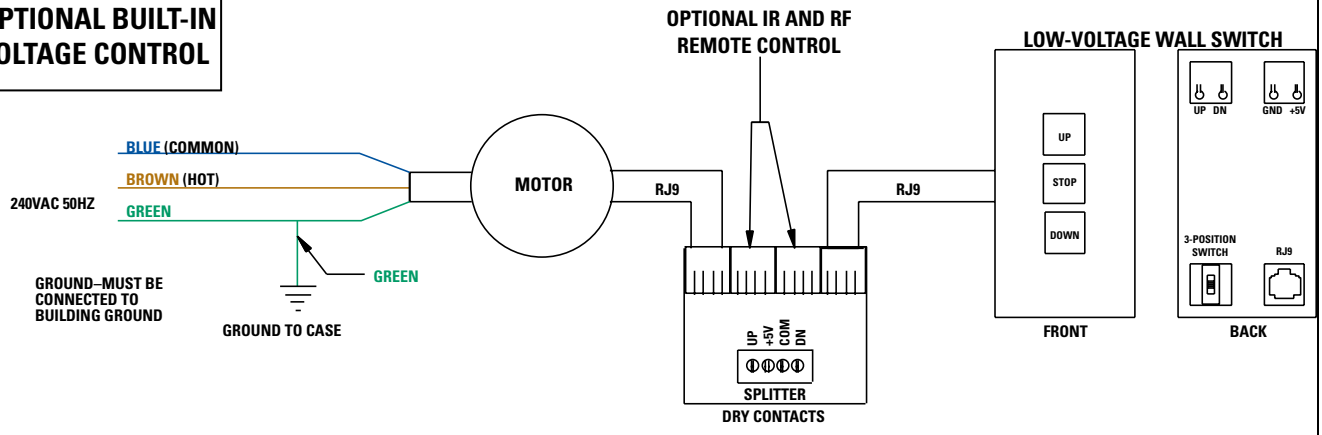
240V WIRING DIAGRAM WITH OPTIONAL BUILT-IN VIDEO PROJECTOR INTERFACE



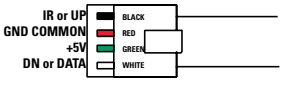
CAUTION: THE PROJECTOR MUST BE TURNED OFF BEFORE CONNECTING THE TRIGGER WIRES TO THE PROJECTOR. FAILURE TO DO SO MAY DAMAGE THE CONTROLLER.

1. Use 2-conductor 20-24 gauge wire to extend the low voltage connection from the projector's 5 or 12-volt screen trigger output to the length required to reach the VPI. When extending the low voltage connection from the projector's screen trigger output, be sure to maintain the proper polarity. The red wire from the VPI is the "signal" and the black wire from the VPI is the "ground".
2. Connect the wires from the VPI that are labeled "Low Voltage Connection" to the end of the extended screen trigger wires above.

240V WIRING DIAGRAM WITH OPTIONAL BUILT-IN LOW VOLTAGE CONTROL



ILT RJ9 PIN-OUTS
(TAB IS FACING UP)



IMPORTANT NOTE: The wall switch is REQUIRED to make any limit switch adjustments, EVEN if a third party control system is used. Therefore, it is advised to wire the switch or provide a 4-conductor connection that is accessible.

TROUBLESHOOTING

Visit www.da-lite.com/products/tutorials.php to find installation and troubleshooting tutorials. You will also find a link to Live Chat for interactive support and you can contact us by email at info@da-lite.com or by phone at (800) 622-3737 or (574) 267-8101 with any troubleshooting questions.

SYMPTOM	CAUSE	SOLUTION
1. Screen will not operate. Motor does **not** hum.	(a) Incorrect line voltage.	(a) Verify 115-125V (or 220-240V). If insufficient voltage, rewire incoming electric line.
	(b) Blown fuse.	(b) Replace fuse.
	(c) Tripped circuit breaker.	(c) Reset circuit breaker.
	(d) No power to operating switch or junction.	(d) Check above. Tighten all loose wire connections. Correct any improper connections. **"Down" Position** Check for power across black and white leads. **"Up" Position** Check for power across red and white leads.
	Power at junction box	
	(e) Thermal overload tripped.	(e) Let motor cool down for 15 minutes. Try again.
	(f) Broken wire in the **"down"** or **"up"** position.	(f) Check for continuity. Cut off old splice and reconnect.
	(g) Defective motor, limit switch or capacitor.	(g) Replace motor assembly. **NOTE: Motor is a sealed assembly.**
	(h) Capacitor burned out.	(h) Replace motor assembly.
2. Screen does not stop at correct position.	(a) Limit switch out of adjustment.	(a) See Screen Adjustment section.
3. Noise. **NOTE: Screen will operate with a low-pitched hum.**	(a) Squeaking, rubber end plug rubbing on motor.	(a) Center roller in case.
	(b) Grinding. Foreign object in screen rubbing on roller or fabric.	(b) Remove.
	(c) Gear noise.	(c) Replace motor assembly.
4. Coasting.	(a) Defective brake.	(a) Replace motor assembly.
5. Fabric hangs crooked.	(a) Screen not installed properly.	(a) Check for level and plumb.
	(b) Fabric has backed up inside case.	(b) Adjust **"down"** limit switch slowly until roller is exposed and wrinkle comes out, then readjust for proper drop.
	(c) Fabric is damaged.	(c) Replace fabric.

LIMITED ONE YEAR WARRANTY
ON DA-LITE PRESENTATION PRODUCTS

Da-Lite Screen Company, Inc. warrants its products to the original purchaser only, to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original purchaser provided they are properly operated according to Da-Lite's instructions and are not damaged due to improper handling or treatment after shipment from the factory.

This warranty does not apply to equipment showing evidence of misuse, abuse or accidental damage, or which has been tampered with or repaired by a person other than authorized Da-Lite personnel.

Da-Lite's sole obligation under this warranty shall be to repair or to replace (at Da-Lite's option) the defective part of the merchandise. Returns for service should be made to your Da-Lite dealer. If it is necessary for the dealer to return the screen or part to Da-Lite, transportation expenses to and from Da-Lite are payable by the purchaser and Da-Lite is not responsible for damage in shipment. To protect yourself against damage or loss in transit, insure the product and prepay all transportation expenses.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES AS TO FITNESS FOR USE AND MERCHANT ABILITY. Any implied warranties of fitness for use, or merchantability, that may be mandated by statute or rule of law are limited to the one (1) year warranty period. This warranty gives you specific legal rights, and you may also have other rights, which vary from state-to-state. **NO LIABILITY IS ASSUMED FOR EXPENSES OR DAMAGES RESULTING FROM INTERRUPTION IN OPERATION OF EQUIPMENT, OR FOR INCIDENTAL, DIRECT, OR CONSEQUENTIAL DAMAGES OF ANY NATURE.**

In the event that there is a defect in materials or workmanship of a Da-Lite product, you may contact our Sales Partners at PO Box 137, Warsaw, IN 46581-0137, (574) 267-8101, (800) 622-3737.

IMPORTANT: THIS WARRANTY SHALL NOT BE VALID AND DA-LITE SHALL NOT BE BOUND BY THIS WARRANTY IF THE PRODUCT IS NOT OPERATED IN ACCORDANCE WITH DA-LITE'S WRITTEN INSTRUCTIONS.

Keep your sales receipt to prove the date of purchase and your original ownership.